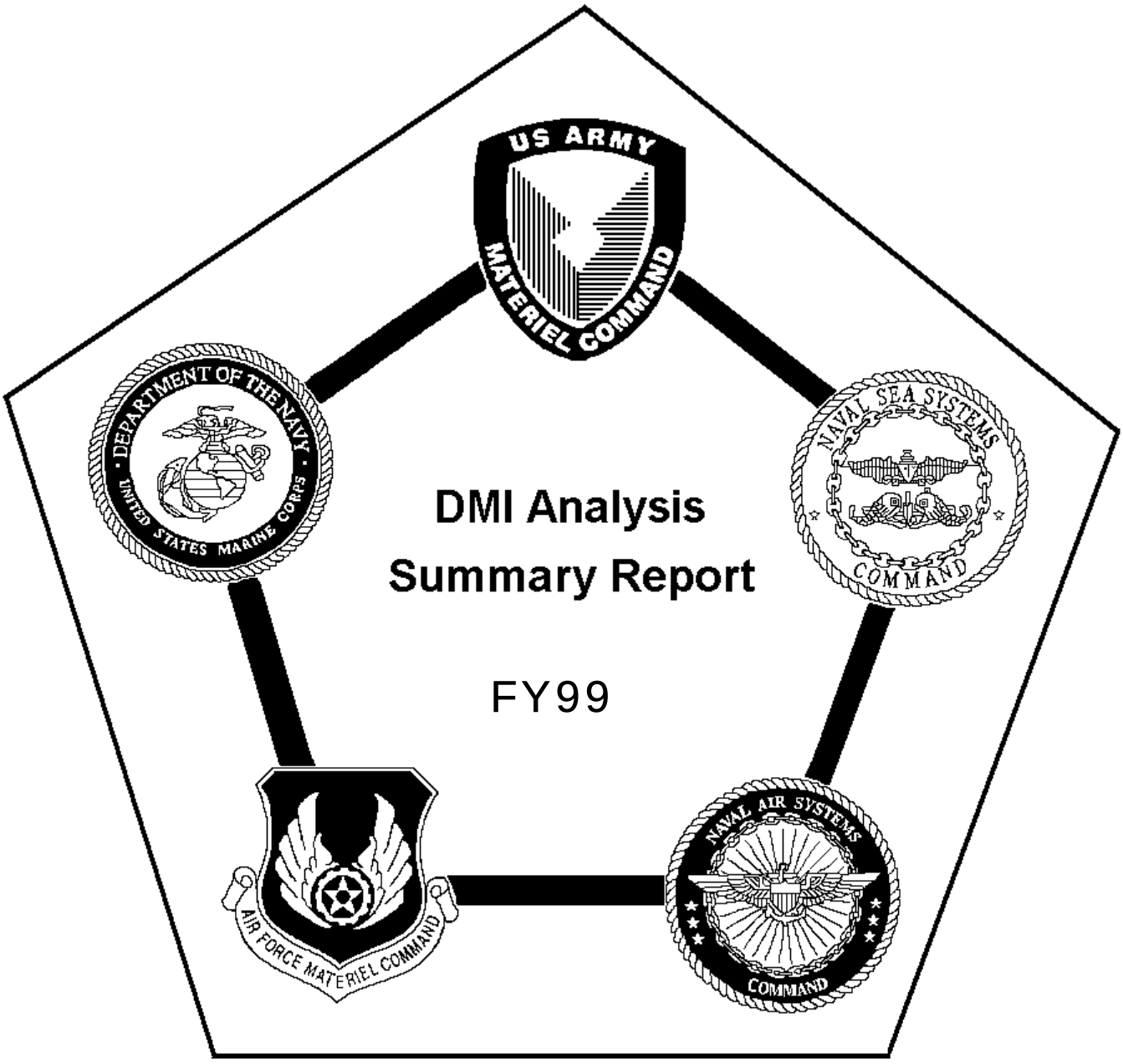
Joint Service
Depot Maintenance Interservicing



DMI Analysis
Summary Report

FY99

Prepared by: **Joint Depot Maintenance Activities Group**
Depot Maintenance Analysis Division

Depot Maintenance Interservicing (DMI) Analysis Summary Report for Fiscal Year 1999

Prepared by:
Joint Depot Maintenance Activities Group
Depot Maintenance Analysis Division
Wright-Patterson Air Force Base OH 45433-5653

FORWARD

This report is published annually at the conclusion of the fiscal year to provide an overview of Depot Maintenance Interservice (DMI) study activity.

This year again saw a reduction of the number of new start system introductions. The number of new start introductions was at an all-time low of 18. However, an additional 30 reviews were initiated to document the transfer of Ground Communications-Electronics (GCE) systems from the Sacramento Air Logistics Center (SM-ALC), McClellan Air Force Base, CA, to the Tobyhanna Army Depot (TYAD), Tobyhanna, PA. The GCE workload transfers resulted from Base Closure and Realignment Commission (BRAC) 1995 decisions.

The level of DMI study completions in fiscal year 1999 remained at a high level with 70 completed. Of the 70 DMI studies completed, 41 were new start DMI studies and 29 were BRAC GCE reviews. A noteworthy trend continuing from previous years was in the number of systems with plans for contract depot maintenance support. Of the 41 new start DMI studies completed in fiscal year 1999, more than one-half (23) were planned for contract support and only about one-quarter (11) were planned and assigned to organic depots for support. The remaining DMI studies completed were cancelled due to program terminations or lack of depot repair requirements (5), or resulted in duplicative assignments between contract and organic sources (2) to accommodate Service requirements.

On 31 March 1999, the updated *Joint Depot Maintenance (JDM) Program* regulation was published. The regulation, which documents joint Service policies and procedures regarding depot maintenance management, carries the numbers of all four Military Services and the Defense Logistics Agency. These Service/Agency numbers are: AMC-R 750-10, OPNAVINST 4790.14A, AFI 21-133(I), MCO P4790.10B, DLAD 4151.16. Additionally, JDMAG developed a brochure specifically to assist program managers and acquisition logistics personnel in complying with Department of Defense policies for depot assignment. This brochure is titled the *Acquisition Personnel Guide for the Depot Source of Repair Assignment Process*. Both the JDM Program regulation and the Acquisition Personnel Guide are available on JDMAG's home page http://www.jdmag.wpafb.af.mil.

THOMAS L. CHANDLER
Deputy Director, Joint Depot
Maintenance Activities Group

CONTENTS

Page

OVERVIEW OF THE YEAR

The 48 DMI studies initiated during fiscal year 1999 are shown in Table 1 by the Service submitting the study and by work breakdown structure (WBS). Cumulative DMI submissions since 1978 are shown in Table 2, also by the Service submitting the study and by WBS.

Table 3 shows, year-by-year since 1978, DMI study introductions (submissions), DMI study decisions (completions) and cost avoidance identified, and totals for fiscal years 1978-1999.

TABLE 1
DMI STUDIES FY99 INTRODUCTIONS

Equipment WBS	Category	USA	USN	USAF	USMC	Total
100	Aircraft	0	4	11	0	15
200	Missiles	0	0	0	0	0
300	Ships	0	0	0	0	0
400	Combat Vehicles	0	0	0	0	0
500	Automotive	0	0	0	0	0
600	Construction	0	0	0	0	0
700	Electronics & Communications	4	1	26	1	32
800	Ordnance, Weapons & Munitions	0	1	0	0	1
900	General Purpose	0	0	0	0	0
	Totals	4	6	37	1	48

TABLE 2
DMI STUDIES FY78-99 INTRODUCTIONS

Equipment WBS	Category	USA	USN	USAF	USMC	Total
100	Aircraft	116	242	355	0	713
200	Missiles	41	46	52	1	140
300	Ships	7	113	1	0	121
400	Combat Vehicles	50	2	1	4	57
500	Automotive	13	0	1	7	21
600	Construction	7	0	0	0	7
700	Electronics & Communications	237	91	222	47	597
800	Ordnance, Weapons & Munitions	19	8	2	3	32
900	General Purpose	20	5	7	3	35
	Totals	510	507	641	65	1,723

TABLE 3
DMI STUDIES
FY1978-99 INTRODUCTIONS-DECISIONS-POTENTIAL COST AVOIDANCE
(YEARLY)

	FY78	FY79	FY80	FY81
INTRODUCTIONS	134	55	98	53
DECISIONS	14	70	76	60
COST AVOIDANCE ($ MILLIONS)	2.6	52.6	49.2	34.0
	FY82	**FY83**	**FY84**	**FY85**
INTRODUCTIONS	62	224	143	103
DECISIONS	43	70	80	70
COST AVOIDANCE ($ MILLIONS)	15.0	13.0	24.5	59.4
	FY86	**FY87**	**FY88**	**FY89**
INTRODUCTIONS	87	84	85	96
DECISIONS	232	101	102	107
COST AVOIDANCE ($ MILLIONS)	29.3	35.3	131.3	2.4
	FY90	**FY91**	**FY92**	**FY93**
INTRODUCTIONS	74	93	75	28
DECISIONS	87	65	83	62
COST AVOIDANCE ($ MILLIONS)	48.2	11.0	9.4	29.5
	FY94	**FY95**	**FY96**	**FY97**
INTRODUCTIONS	45	54	32	25
DECISIONS	61	49	54	45
COST AVOIDANCE ($MILLIONS)	20.2	6.8	18.2	0.4
	FY98	**FY99**	**TOT**	
INTRODUCTIONS	25	48	1723	
DECISIONS	38	71	1640	
COST AVOIDANCE ($MILLIONS)	0	0	592.8	

Tactical Combat Operations System (83-0008)

The Marine Corps introduced the Tactical Combat Operations (TCO) System for DMI study. The Marine Corps purchased three systems and is the only user. The TCO is an on-line, interactive, secure, semi-automated system used by Marine Air Ground Task Force, Combat Operations Centers for receiving, processing, storing, retrieving, displaying, summarizing and discriminating selected tactical combat information. A summary DMI study resulted in assignment of the TOC system to contract support with three components remaining at Tobyhanna Army Depot, Tobyhanna, PA. Because of the existing component interservicing credit exchange relationships, no new cost avoidance resulted. The joint Service decision was announced 30 Sep 99.

Caterpillar Model 621B Self-Propelled Scraper (86-0010)

The Army introduced the Caterpillar Model 621B Self-Propelled Scraper for DMI study. This scraper is an item of commercial construction equipment and is a non-developmental item. All Services use this scraper; however, only the Army and Marine Corps have reparable assets. A summary DMI study recommended that the depot source of repair (DSOR) for the Army's assets of the scraper and its major assemblies be assigned to commercial repair, and that the Marine Corps' assets be assigned to the Marine Corps Maintenance Centers Albany, GA, and Barstow, CA. This assignment was recommended in accordance with each Service's maintenance plans. No interservicing or cost avoidance will occur. The joint Service decision was announced 27 Sep 99.

T-45 Goshawk Trainer Aircraft (87-0009)

The Navy introduced the T-45 Goshawk Trainer Aircraft for DMI study. The Navy is the only user and plans on purchasing a total of 179 aircraft. The T-45 is a two-seat, low wing, single engine jet, an upgraded version of the British Aerospace Hawk Aircraft. It will be used by the Navy for lead-in training to high performance tactical aircraft. A summary DMI study resulted in assigning the T-45 to the Navy for contract repair. The joint Service decision was announced 18 Dec 98.

AN/TSC-125 Commanders Tactical Terminal 1 (88-0045)

The Army submitted the AN/TSC-125 Commanders Tactical Terminal 1 (CTT1) for DMI study. The AN/TSC-125 CTT1 is a tactical intelligence dissemination terminal. It provides reliable airborne UHF line-of-sight, tactical intelligence data dissemination. A total of 23 systems will be procured. A summary DMI study resulted in a joint Service decision for the Army to use contract depot maintenance. The joint Service decision was announced 28 Oct 98.

AN/AAS-42 Infrared Search and Track System (90-0045)

The Navy introduced the AN/AAS-42 Infrared Search and Track System (IRSTS) for DMI study. The Navy is the only user and plans to procure a total of 527 AN/AAS-42 systems for the F-14D aircraft. The AN/AAS-42 IRSTS is a forward aspect, target detection and infrared receiver which automatically detects, tracks, and counts airborne targets. The system calculates target ranges and velocities, and provides angular coordinates, range and velocity data to the aircraft fire control computer. A summary DMI study recommended the AN/AAS-42 IRSTS be assigned to the Navy for contract support. The joint Service decision was announced on 27 Sep 99.

AN/USN-2(V) Standard Attitude, Heading Reference Set (90-0055)

The Navy introduced the AN/USN-2(V) Standard Attitude, Heading Reference Set (SAHRS). The Navy is the only user of the SAHRS, procuring a total of 124 sets, with 46 sets for use on the F-14D aircraft and 78 sets for use on the T-45 aircraft. The SAHRS is a strapdown, self-contained, all-attitude reference set that provides analog and digital outputs of aircraft pitch, roll, heading, angular acceleration, linear acceleration, and velocity. The Navy initially planned for organic depot support but changed to contractor depot support based on reduced inventory, multiple configuration support, inferior technical data packages, and support date slippage. A summary DMI study resulted in assignment of the depot source of repair to the Navy for contract support. The joint Service decision was announced 27 May 99.

Compass/Attitude Heading Reference System (C/AHRS) (92-0012)

The Compass/Attitude Heading Reference System (C/AHRS) was introduced by the Air Force for DMI study. Subsequently the study was terminated because the C/AHRS Program had been cancelled and the equipment would not be procured. The termination of the study was announced 10 Dec 98.

AN/PIH-1 Public Address Set (92-0017)

The Army submitted the AN/PIH-1 Public Address Set for DMI study. The AN/PIH-1 is used by the Army Special Operations Forces (SOF) for psychological operations. A summary DMI study resulted in assignment of the AN/PIH-1 to the Army for contract repair. The joint Service decision was announced 24 Nov 98.

AN/AAR-51 Forward Looking Infrared Set (92-0060)

The Navy submitted the AN/AAR-51 Forward Looking Infrared (FLIR) Set for DMI study. The Navy is the only user of the AN/AAR-51 and plans to procure 130 sets for use on the AV-8 aircraft. The AN/AAR-51 provides the pilot with infrared viewing capability by converting thermal radiation from the viewed scene to a standard television signal. The AN/AAR-51 FLIR uses a thermal cueing function for target scanning and presents these targets to the pilot on heads-up and multipurpose color displays. A summary study resulted in a recommendation to assign the AN/AAR-51 to the Navy for contract repair. The joint Service decision was announced 13 Apr 99.

AN/PVS-6 Mini-Eyesafe Laser Infrared Observation Set (92-0064)

The Army introduced the AN/PVS-6 Mini-Eyesafe Laser Infrared Observation Set (MELIOS) for DMI review. Subsequently the MELIOS maintenance concept was changed from depot level to direct support. Therefore, the DMI study was terminated 8 Oct 98.

F-15 A/D Aircraft Improved Head-Up Display (94-0013)

The Air Force introduced the F-15 A/D Aircraft Improved Head-Up Display (IHUD) for DMI study. Subsequently, the Air Force requested termination of the DMI study due to the cancellation of the IHUD program. The termination of the study was announced 7 May 99.

AN/PRC-126 Small Unit Radio Set (94-0019)

The Army introduced the AN/PRC-126 Small Unit Radio Set for DMI review. The AN/PRC-126 is a hand held receiver-transmitter that provides short range, ground-to-ground voice communications in the 30MHZ to 88MHZ band. The AN/PRC-126 is currently being used by Army ground forces for two-way voice communications. The Army procured a total of 17,500 units and is the only user of this radio. JDMAG conducted a summary DMI review of the AN/PRC-126 and recommended assignment to the Tobyhanna Army Depot, Tobyhanna, PA. The joint Service decision was announced 27 Sep 99.

AC-130U Aircraft Loader Weapon Control Panel (95-0012-08)

The Air Force introduced the AC-130U Aircraft Loader Weapon Control Panel (LWCP) for DMI review. The AC-130U LWCP enables the operator to set and monitor the desired mode of operation for each of the 25mm, 40mm and 105mm guns aboard the gunship. The Air Force is the only user and procured 39 panels. A summary DMI study resulted in a joint Service decision to assign the LWCP to Warner Robins Air Logistics Center, Robins AFB, GA, for depot maintenance support.

F414-GE-400 Turbo-Fan Engine (96-0006)

The F414-GE-400 Turbo-Fan Engine was introduced by the Navy for DMI study. The Navy is the only user and plans on a total procurement of 1,126 engines for the F/A-18 E/F aircraft. The F414 Engine is a modular engine which incorporates a three stage fan and a seven stage high-pressure compressor, each driven by a single stage turbine. The F414-GE-400 is a derivative of the General Electric F404 family of engines which Navy Aviation Depot (NAVAVNDEPOT) Jacksonville, FL, currently repairs for the Navy F/A-18 and the Air Force F-117 aircraft. A summary DMI study resulted in assigning the F414-GE-400 to the NAVAVNDEPOT Jacksonville, except for two components that will be supported for life by a commercial source. The joint Service decision was announced 5 Apr 99.

M270A1 Multiple Launch Rocket System Improved Launcher Mechanical System (96-0011-02)

The Army introduced the M270A1 Multiple Launch Rocket System (MLRS) Improved Launcher Mechanical System (ILMS) for DMI review. The M270A1 MLRS is a weapons platform capable of firing rockets and missiles with a variety of munitions. The ILMS is a materiel change to the basic M270A1 MLRS launcher that will result in faster target engagement on attacking highly mobile and fast moving targets. The Army is the only user of the M270A1, and plans for an inventory of 797 systems. JDMAG conducted a summary DMI study that recommended the depot source of repair of the M270A1 MLRS ILMS be assigned to the Red River Army Depot (RRAD), Texarkana, TX, for five items, and to the Letterkenny Army Depot (LEAD), Chambersburg, PA, for one item. Three remaining items were recommended for support by a commercial source. The joint Service decision was announced 21 Apr 99.

M242 25mm Automatic Machine Gun (96-0020)

The Army introduced the M242 25mm Automatic Machine Gun for DMI study. Subsequently, the Maintenance Interservice Support Management Offices determined the Army, Navy and Marine Corps should repair their own assets at their respective depots, Red River Army Depot, Texarkana, TX; Naval Surface Warfare Center, Crane, IN; and Marine Corps Maintenance Center, Albany, GA. The joint Service decision was announced 16 Dec 98.

ON-474(V)(P)/T Communications Subsystem (97-0002)

The ON-474(V)(P)/T Communications Subsystem was introduced by the Army for DMI study. All Services will use the ON-474(V)(P)/T subsystem, with 51 systems designated for the Army, 2 for the Air Force, 2 for the Marine Corps, and 8 for the Navy. The ON-474(V)(P)/T is an automatic, digital, modular, automatic switch which can provide up to 743 analog and digital loop/trunk terminations

and is capable of performing the functions of an originating and terminating switch. The system is used in various platforms and end items. The ON-474(V)(P)/T Communications Subsystem was acquired as a non-development item and data rights were not procured. A summary DMI study resulted in assigning the depot source of repair to the Army for contract support. The joint Service decision was announced 2 Jun 99.

C-130 Aircraft Self Contained Navigation System (97-0006)

The C-130 Aircraft Self Contained Navigation System (SCNS) was introduced by the Air Force for DMI study. The SCNS is an integrated navigation and radio management system. The Air Force, the only user, will use the SCNS on various C-130 aircraft models. A summary DMI study resulted in assigning the depot source of repair to the Air Force for contract support. The joint Service decision was announced 30 Sep 99.

Self Contained Breathing Apparatus (97-0011)

The Army submitted the Self Contained Breathing Apparatus (SCBA) for DMI study. The SCBA is designed to provide 60 minutes of clean dry air for Army firefighters, technical escorts, and chemical activities. The DMI study was terminated and closed without assignment of a depot source of repair when it was found the SCBA requires no depot maintenance.

Tactical Loudspeakers, Aerial, Manpack, and Vehicle/Watercraft (97-0012)

The Army introduced the Tactical Loudspeakers, Aerial, Manpack, and Vehicle/Watercraft for DMI study. Subsequently, the study was terminated and closed without assignment of a depot source of repair, because the systems were no longer repaired at depot level.

Light Armored Vehicle – Air Defense Forward Looking Infrared Sight (97-0022)

The Marine Corps introduced the Light Armored Vehicle – Air Defense (LAV-AD) Forward Looking Infrared (FLIR) Sight for DMI study. The Marine Corps is the only user and will procure 20 systems. In conjunction with the Autotracker, Raster Symbol Generator, and Gunner/Commander Monitors, the FLIR comprises the sighting, display and laser systems used on the LAV to sight the Stinger missile. The technology comprises a generation II digital FLIR configuration. A summary DMI study resulted in assigning the depot source of repair to the Marine Corps for contract support. The joint Service decision was announced 9 Nov 98.

AN/FAC-6(V) Fiber Optic Intersite System (97-0024)

The Navy introduced the AN/FAC-6(V) Fiber Optic Intersite System for DMI review. The Navy plans a total inventory of 95 systems. The system will be located at selected Navy and Marine Corps Air Stations throughout the world. It will be in constant use in both peacetime and wartime, and is essential to the daily operation of the facilities where installed. A summary DMI study resulted in a decision to assign the AN/FAC-6(V) to the Space and Naval Warfare Systems Center (SPAWARSYSCEN), Charleston, SC. The joint Service decision was announced 13 Apr 99.

MK19 MOD 3 40mm Grenade Machine Gun (98-0006)

The Army introduced the MK19 MOD 3 40mm Grenade Machine Gun for DMI study. The gun is used by all Services and was previously assigned to the Naval Ordnance Station, Louisville, KY, for depot repair. The Louisville facility was closed by the 1995 Base Closure and Realignment Commission (BRAC) decisions. The Louisville facility was transferred to a local-use authority and the existing workload was privatized in place. The Army MK19 MOD 3 gun was submitted for review and reassignment after being identified as core. A summary DMI study resulted in assigning the depot source of repair of Army assets to the Anniston Army Depot (ANAD), Anniston, AL. The Air Force, Navy, and Marine Corps MK19 MOD 3 workload will remain supported by contract through the Navy. The joint Service decision was announced 24 Nov 98.

AN/TPS-59(V)3 Radar Set (98-0013)

The Marine Corps submitted the AN/TPS-59(V)3 Radar Set for DMI study. The AN/TPS-59(V)3 is an upgrade to the AN/TPS-59(V)1 and is used to control air breathing targets, and to track theater ballistics missiles and cue shooters (e.g., Hawk Missiles, etc.). The antenna array from the AN/TPS-59(V)1 has been retained as part of the AN/TPS-59(V)3 with a minor modification to one circuit card assembly. The two electronics shelters which were part of the AN/TPS-59(V)1 have been replaced entirely by a new electronics shelter (S-280G). A summary DMI study resulted in assigning the depot maintenance for the AN/TPS-59(V)3 to the Marine Corps Maintenance Center, Barstow, CA, and 34 depot reparable components to contract support. The joint Service decision was announced 23 Aug 99.

TT40-4 Gas Turbine Engine (98-0014)

The Army submitted the TT40-4 Gas Turbine Engine (GTE) for DMI study. The TT40-4 GTE is a single-shaft design with the compressor and turbine wheels mounted on the same shaft. The TT40-4 GTE is used in the M56 and M58 Smoke Generators. A summary DMI study resulted in the TT40-4 assignment to Ogden Air Logistics Center (OO-ALC), Hill AFB, UT. The joint Service decision was announced 26 Oct 98.

AN/ASH-39(V)1 Flight Recorder Set (98-0015)

The Navy introduced the AN/ASH-39(V)1 Flight Recorder Set for DMI study. The AN/ASH-39(V)1 electronically records flight data in a highly survivable, non-volatile memory. A sonar beacon is attached to the recording device and transmits signals to aid in locating the recorder when underwater. Playback of the recovered data will provide information needed for mishap analysis by the Navy Safety Center. The Navy plans to procure a total of 62 units for use on various aircraft. JDMAG conducted a summary review recommending the depot maintenance of the AN/ASH-39(V)1 be assigned to contract. The joint Service decision was announced 20 Jan 99.

AN/USG-2 and AN/USG-3 Cooperative Engagement Transmission Processing Sets (98-0016)

The Navy introduced the AN/USG-2 and AN/USG-3 Cooperative Engagement Transmission Processing Sets for DMI review. The AN/USG-2 and AN/USG-3 Cooperative Engagement Transmission Processing Sets provide the US Navy with a Cooperative Engagement Capability (CEC) for Battle Group (BG) Anti-Air Warfare (AAW). CEC distributes sensor, AAW coordination, and weapons data among the weapon systems of major AAW combatants and integrates their combat system assets to form a single, distributed BG system. The Navy plans to procure 31 AN/USG-2s for shipboard installations and the 13 AN/USG-3s for aircraft application. A summary review resulted in a JDMAG recommendation that the depot maintenance of the AN/USG-2 and AN/USG-3 be assigned to contract. The joint Service decision was announced 26 Apr 99.

TT10 Gas Turbine Engine (98-0017)

The Army submitted the TT10 Gas Turbine Engine (GTE) for DMI study. The TT10 GTE, the predecessor of the TT40-4 GTE, is a single-shaft design with the compressor and turbine wheels mounted on the same shaft. It is used to power mobile electric power units. A summary DMI study resulted in assignment of the TT10 to Ogden Air Logistics Center (OO-ALC), Hill AFB, UT. The joint Service decision was announced 26 Oct 98.

AN/VSX-4 Interrogator-Transponder Set (98-0023)

The Army introduced the AN/VSX-4 Interrogator-Transponder Set for DMI review. The AN/VSX-4 consists of an interface unit and a receiver-transmitter. The AN/VSX-4 covertly interrogates AN/VSX-4 and AN/VSC-9 equipped combat and combat service support vehicles to identify friendly status. It also transponds to other AN/VSX-4 interrogations. The AN/VSX-4 operates in a 38-40 GHZ frequency range. The Army is the only user of the AN/VSX-4 and plans to procure 1,072 sets for use in various combat and combat support vehicles. JDMAG conducted

a summary DMI review of the AN/VSX-4 and recommended assignment to the Army for depot maintenance by contract. The joint Service decision was announced 18 Dec 98.

AN/VSC-9 Transponder Set (98-0024)

The Army introduced the AN/VSC-9 Transponder Set for DMI review. The AN/VSC-9 consists of an interface unit and a receiver-transmitter. The AN/VSC-9 covertly responds to target interrogation from the AN/VSX-4 providing a 99% probability of correct friendly identification of combat and combat service support vehicles in all environments. The system operates in a 38-40 GHZ frequency range. The Army is the only user of the AN/VSC-9 and plans to procure 868 sets for use on various combat and combat support vehicles. JDMAG conducted a summary DMI review of the AN/VSC-9 and recommended assignment to the Army for depot maintenance by contract. The joint Service decision was announced 18 Dec 98.

MK8 MOD 1 Seal Delivery Vehicle (98-0025)

The Navy introduced the MK8 MOD1 Seal Delivery Vehicle (SDV) for DMI study. The MK8 MOD1 SDV is a "wet" submersible designed to carry combat swimmers and their cargo in fully flooded compartments. The MK8 MOD1 SDV is propelled by an all-electric propulsion system powered by rechargeable batteries. The MK8 MOD1 SDV can be deployed and recovered from a surface ship, dry deck shelter, pierside, or from a ramp to meet mission requirements. The Navy is the only user and plans to procure a total of ten MK8 MOD1 SDVs. Based on a summary DMI review, JDMAG recommended the depot maintenance of the MK8 MOD1 SDV be assigned to the Naval Surface Warfare Center, Coastal Systems Center, Panama City, FL, with selected components repaired by contract. The joint Service decision was announced 30 Jun 99.

MH-53J Helicopter Interactive Defense Avionics System/Multi-mission Advanced Tactical Terminal Discrete Signal Interface Unit (99-0004-01)

The MH-53J Helicopter Interactive Defense Avionics System/Multi-mission Advanced Tactical Terminal (IDAS/MATT) Discrete Signal Interface Unit (DSIU) was introduced by the Air Force for DMI study. The Air Force is the only user and procured 47 DISUs for use on 41 MH-53J Pave Low IIIE Helicopters. The MH-53J IDAS/MATT DSIU provides signal conditioning, blanking and look-through signals, and a back-up mode for the AN/ALE-40 Chaff Dispenser-to-Missile Warning System interface. A summary DMI study resulted in assigning the DISU and components to the Air Force for support by a commercial source. The joint Service decision was announced 27 Apr 99.

MH-53J Helicopter Interactive Defense Avionics System/Multi-mission Advanced Tactical Terminal Color Multi-Function Display (99-0004-02)

The MH-53J Helicopter Interactive Defense Avionics System/Multi-mission Advanced Tactical Terminal (IDAS/MATT) Color Multi-Function Display (CMFD) was introduced by the Air Force for DMI study. The Air Force is the only user and procured 44 CMFDs for use on 41 MH-53J Pave Low IIIE Helicopters. The CMFD provides the flight crew with information to aid in navigation and awareness of tactical situations with color presentations of the digital map, caution/warning information, and electronic warfare situational information. The CMFD is night vision goggles compatible. A summary DMI study resulted in assigning the CMFD and components to the Air Force for support by a commercial source. The joint Service decision was announced 27 May 99.

MH-53J Helicopter Interactive Defense Avionics System/Multi-mission Advanced Tactical Terminal Digital Memory Unit (99-0004-03)

The MH-53J Helicopter Interactive Defense Avionics System/Multi-mission Advanced Tactical Terminal (IDAS/MATT) Digital Memory Unit (DMU) was introduced by the Air Force for DMI study. The Air Force is the only user and procured 30 DMUs to support MH-53J Pave Low IIIE Helicopters. The MH-53J IDAS/MATT DMU is the storage device for digital map data which is created at a mission planning system workstation. The digital map data is stored on a removable nonvolatile memory media and is loaded on the DMU from a mission planning workstation via a small computer interface port. A summary DMI study resulted in assigning the DMU and components to the Air Force for support by a commercial source. The joint Service decision was announced 7 May 99.

MH-53J Helicopter Interactive Defense Avionics System/Multi-mission Advanced Tactical Terminal Data Transfer Set (99-0004-04)

The MH-53J Helicopter Interactive Defense Avionics System/Multi-mission Advanced Tactical Terminal (IDAS/MATT) Data Transfer Set (DTS) was introduced by the Air Force for DMI study. The Air Force is the only user and procured 47 DTSs for use on 41 MH-53J Pave Low IIIE Helicopters. The MH-53J IDAS/MATT DTS transmits data to aircraft line replaceable units, receives and stores mission data updates, and receives and stores mission historical data. The DTS loads mission data, electronic order of battle, MATT filter data, integrated electronic warfare processor settings, electronic warfare scripts, and operational flight programs (OFP) from a mission planning system. The DTS OFP is contained in firmware and is loaded at the depot. A summary DMI study resulted in assigning the DTS and components to the Air Force for support by a commercial source. The joint Service decision was announced 27 Apr 99.

MH-53J Helicopter Interactive Defense Avionics System/Multi-mission Advanced Tactical Terminal Digital Map Computer (99-0004-05)

The MH-53J Helicopter Interactive Defense Avionics System/Multi-mission Advanced Tactical Terminal (IDAS/MATT) Digital Map Computer (DMC) was introduced by the Air Force for DMI study. The Air Force is the only user and procured 45 DMCs for use on 41 MH-53J Pave Low IIIE Helicopters. The MH-53J IDAS/MATT DMC provides the pilot with information to aid in navigation and awareness of the tactical situation by developing digital maps and symbology overlays for display on the Color Multi-Function Display. The DMC generates video images of aeronautical charts, plan view maps, and symbol overlays. A summary DMI study resulted in assigning the DMC and components to the Air Force for support by a commercial source. The joint Service decision was announced 2 Jun 99.

MH-53J Helicopter Interactive Defense Avionics System/Multi-mission Advanced Tactical Terminal Horizontal Situation Indicator (99-0004-06)

The MH-53J Helicopter Interactive Defense Avionics System/Multi-mission Advanced Tactical Terminal (IDAS/MATT) Horizontal Situation Indicator (HSI) was introduced by the Air Force for DMI study. The Air Force is the only user and procured 47 IEWPs for use on 41 MH-53J Pave Low IIIE Helicopters. The MH-53J IDAS/MATT HSI is a navigational instrument that receives digital bearing and distance inputs, synchro magnetic heading inputs and command course inputs, and operator command and command course inputs. These inputs are generated from TACAN, UHF and VOR information and displayed for the flight crew. A summary DMI study resulted in assigning the HSI and components to the Air Force for support by a commercial source. The joint Service decision was announced 27 Apr 99.

MH-53J Helicopter Interactive Defense Avionics System/Multi-mission Advanced Tactical Terminal Integrated Electronic Warfare Processor (99-0004-07)

The MH-53J Helicopter Interactive Defense Avionics System/Multi-mission Advanced Tactical Terminal (IDAS/MATT) Integrated Electronic Warfare Processor (IEWP) was introduced by the Air Force for DMI study. The Air Force is the only user and procured 47 IEWPs for use on 41 MH-53J Pave Low IIIE Helicopters. The MH-53J IDAS/MATT IEWP controls and monitors the electronic warfare subsystems. The IEWP actively monitors and controls the electronic countermeasures in addition to expendable countermeasures. A summary DMI study resulted in assigning the IEWP and components to the Air Force for support by a commercial source. The joint Service decision was announced 27 Apr 99.

AC-130U Aircraft Refrigeration System (99-0008)

The Air Force introduced the AC-130U Aircraft Refrigeration System for DMI study. The Refrigeration System consists of two high output air conditioning packs; the flight deck unit which cools equipment located in the forward section, with the balance cooled by the cargo compartment unit. Each unit has three major components: the refrigeration unit, the aircraft cooling turbine, and the anti-icing valve. The Air Force is the only user and plans to procure a total of 26 Refrigeration Systems for the 13 AC-130U Aircraft in the inventory. Following a summary DMI review, JDMAG recommended depot maintenance of the AC-130U Aircraft Refrigeration System be assigned to the Oklahoma City Air Logistics Center (OC-ALC), Tinker AFB, OK. The joint Service decision was announced 17 Aug 99.

CP-2410/A Air Data Computer (99-0009)

The Navy introduced the CP-2410/A Air Data Computer (ADC) for DMI study. The Navy, the only user, plans to acquire 618 ADCs for use on rotary wing and fixed wing aircraft (CH-46, H-53 and C-130). The CP-2410/A ADC is a commercial off-the-shelf (COTS) system installed in conjunction with the Ground Proximity Warning System. The ADC uses the aircraft existing pitot static system and converts the static and dynamic air pressure differentials into electrical signals that represent pressure altitude, barometric altitude, rate of altitude change, and calibrated and true airspeed. The ADC was developed and produced with proprietary rights for both the hardware and software belonging to GEC-Marconi Avionics, Rochester, Kent, England. A summary DMI study resulted in assigning the ADC to the Navy for support by a commercial source. The original equipment manufacturer will support repair overseas, maintaining only a spares pool and a check/test capability in the United States. The joint Service decision was announced 12 Aug 99.

AN/AYQ-25(V) Computer-Display Set (99-0011)

The Navy introduced the AN/AYQ-25(V) Computer-Display Set for DMI study. The Navy is the only user of the AN/AYQ-25(V) and plans to acquire 665 Computer-Display Sets for use on F/A-18E/F and AV-8B aircraft, with potential use on the T-45 aircraft. Additionally, the Navy was acquiring 24 sets for use by allies. The AN/AYQ-25(V) Computer Display Set is a commercial-based computer and display system. The display will provide user information relative to aircraft systems status, frequencies, flight planning, communications, and other data required by the user and the specific aircraft. These displays will replace existing displays that have parts obsolescence. A summary DMI study resulted in assigning the depot source of repair to the Navy for support by a commercial source. The joint service decision was announced 30 Sep 99.

1995 Base Closure and Realignment Commission and Defense Depot Maintenance Council Workload Reassignmnets

The 1995 Base Closure and Realignment Commission (BRAC) and subsequent Defense Depot Maintenance Council (DDMC) decisions reassigned all Ground Communications-Electronics (GCE) from Sacramento Air Logistics Center (SM-ALC), McClellan AFB, CA, to Tobyhanna Army Depot (TYAD), Tobyhanna, PA. The following is a list of those DMI studies completed in fiscal year 1999 to record the reassignments:

DMI Study #	Type Designator	Nomenclature	Service Users	Previous Study #
99B001	AN/GRC-71(V)	Radio Set	AF	2-0-8/840031
99B002	AN/TSC-60(V)	Comm Central	A, AF	2-0-72/840012
99B003	AN/GRC-211(V)	Radio Set	A, N, AF	840032
99B004	AN/TRC-170(V)	Radio Set	A, AF, MC	780033
99B005	AN/TSQ-111(V)	Comm Control	A, AF, MC	780032
99B006	R-2174(P) UR	Radio Receiver	A, N, AF, MC, NSA	820006
99B007	CT-12K	Cloud Height Indicator	AF	840021
99B008	AN/FMQ-12	Ionospheric Sounding System	AF	840018
99B009	AN/FMQ-8	Temperature-Dewpoint Measuring Set	AF	840013
99B010	AN/FPS-8	Radar Set	AF	2-0-68
99B011	AN/FSC-97(V)	Transponder	A, N, AF	870027
99B012	AN/GMQ-33	Cloud Height Set	N, AF	840017
99B013	AN/GPN-22	Radar Set	AF	830048
99B014	AN/GRN-19	TACAN	AF	2-0-20
99B015	AN/GRN-20	Radio	A, AF	2-0-24
99B016	AN/GRT-21	Radio Transmitter	A, N, AF	2-0-6
99B017	AN/GRT-22	Radio Transmitter	A, N, AF	2-0-7
99B018	AN/GVS-5	Night Vision Sight	A, N, AF, MC	780071
99B019	AN/MPQT-3	Radar Simulator	AF	780072
99B020	AN/MSQ-T7B	Radar Emitter	AF	2-0-7
99B021	AN/MST-T1A(V)	Training Range	AF	900033
99B022	AN/PAQ-1	Laser Designator	A	780045-02
99B023	AN/PAQ-3	Laser Modular Equipment	A, MC	780045-03
99B024	AN/FPS-6	Radar Set	AF	2-0-93
99B025	AN/TRC-87	Radio	AF	2-0-33
99B026	AN/TRN-26	TACAN	AF	2-0-47
99B027	AN/URN-5	Radio	A, N, AF	2-0-36
99B028	AN/PPS-5	Radar Beacon	A, AF	2-0-59
99B029	AN/PPS-15	Radar Beacon	A, AF, MC	780020
99B030	AN/AVS-6	Night Vision Goggle	A, N, AF	840003